

Amendments to the Specification:

Please replace paragraph [0037] with the following rewritten paragraph.

Key extraction component 305, in addition to storing the received cells into data buffer 306 and the notification in notification buffer 307, forwards cell identification information 330 to spray block 308. As shown in Fig. 3, identification information 330 may include either a pointer to the location of the data cell in data buffer 306 (dptr) or both a pointer to a notification cell in notification buffer 307 (nptr) and a pointer to a data cell in the data buffer; source identification information (source ID) that identifies the source which transmitted the cell; the cell's sequence number (seq. num), and the cell's type. Spray block 308 stores identification information 330, along with the corresponding data cell from data buffer 306, in distributed memory 320. The cell identification information 330 is also forwarded to reorder engine 309, which generates, for each packet, a packet order table (~~"POC"~~) ("POT") 315 that references, in the correct cell order, the cells in memory 320 that comprise the packet.